

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 2000-139949

(43)Date of publication of application : 23.05.2000

(51)Int.CI.

A61B 19/00

A61B 1/00

G02B 21/00

(21)Application number : 10-319190

(71)Applicant : OLYMPUS OPTICAL CO LTD

(22)Date of filing : 10.11.1998

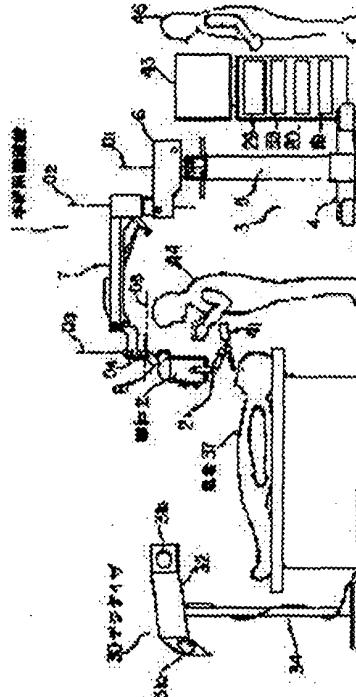
(72)Inventor : MIZOGUCHI MASAKAZU
KINUKAWA MASAHIKO
FUKAYA TAKASHI

(54) MICROSCOPE FOR SURGERY

(57)Abstract:

PROBLEM TO BE SOLVED: To detect the three-dimensional relative position to a mirror body in or near the observation visual field by detecting the three-dimensional position of a microscope against an operation section, detecting the three-dimensional position of a surgical apparatus against the microscope, and calculating the three-dimensional position of the surgical apparatus against the operation section.

SOLUTION: A tomographic image photographed before an operation in advance is reconstituted into three-dimensional image data and recorded in a work station 29. When the operation is started, calibration is made with a mark member for the coordinate correlation between the tomographic image data in the work station 29 and an operation section. The work station 29 calculates the focal position of an organism coordinate system from the position and attitude of a mirror body 2 in the organism coordinate system and the relative position of the focal position to the mirror body 2. The three-dimensional image data and the focal position are superimposingly displayed in the organism coordinate system of the image on a monitor 43.



LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]